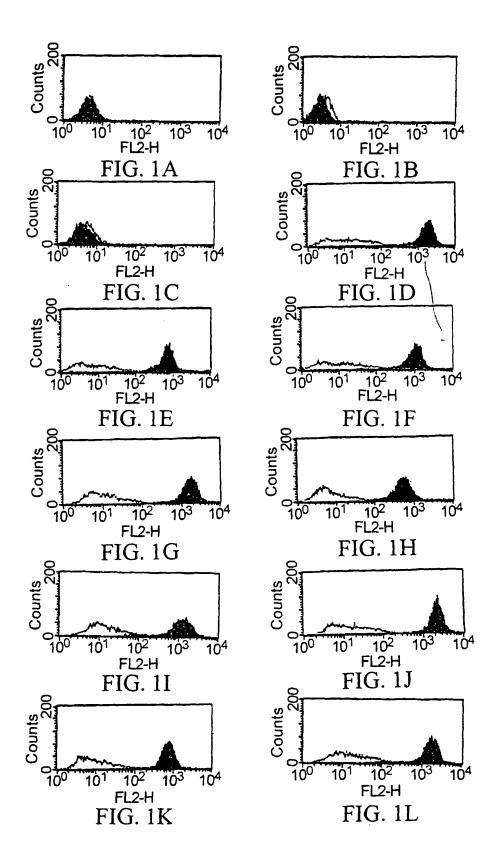
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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

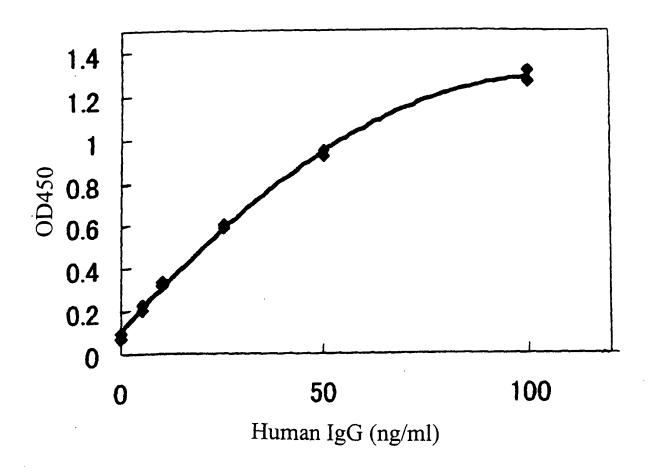


FIG. 2

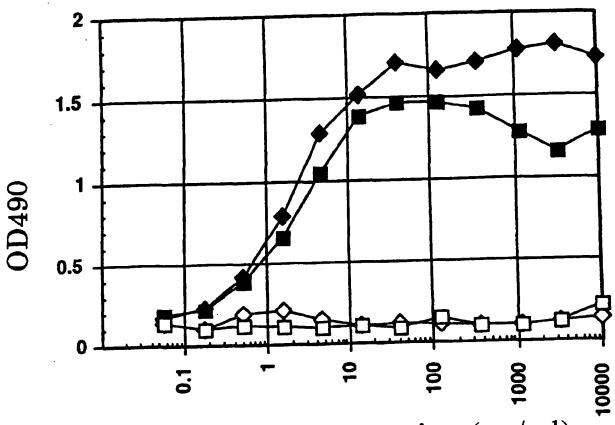
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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

AILIM



Antibody concentration (ng/ml)

—□— SA12 CHO

SA12 human

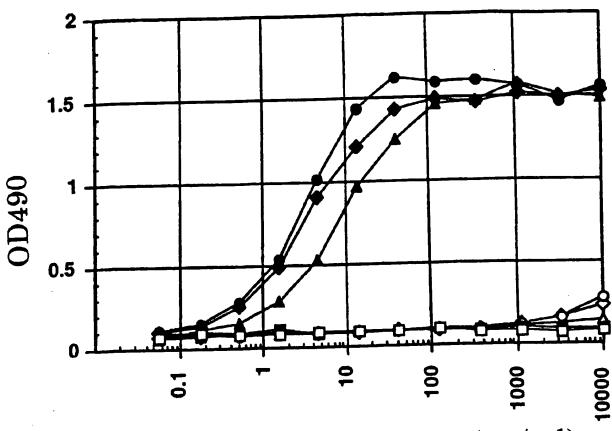
--◇-- SG430 CHO

→ SG430 human

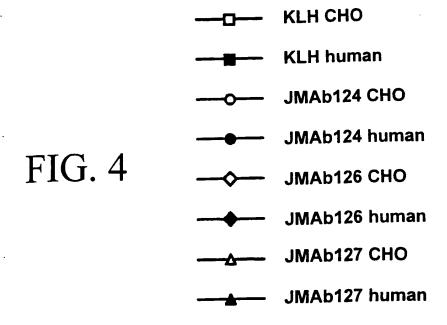
FIG. 3

Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



Antibody concentration (ng/ml)

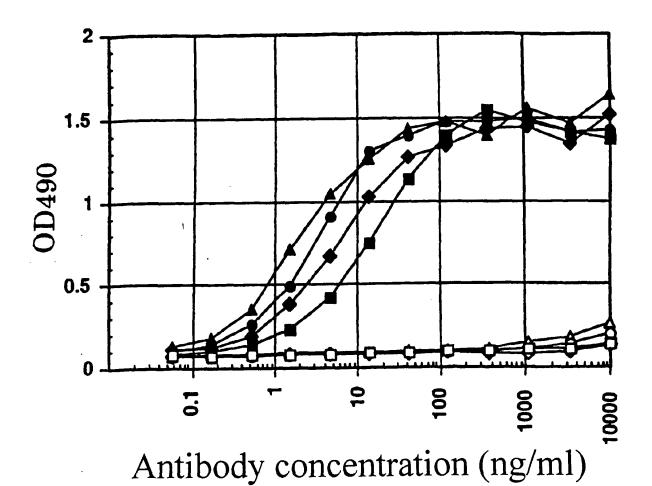


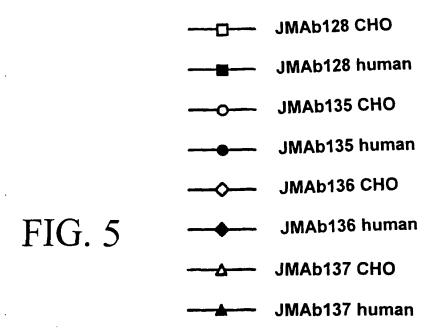
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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

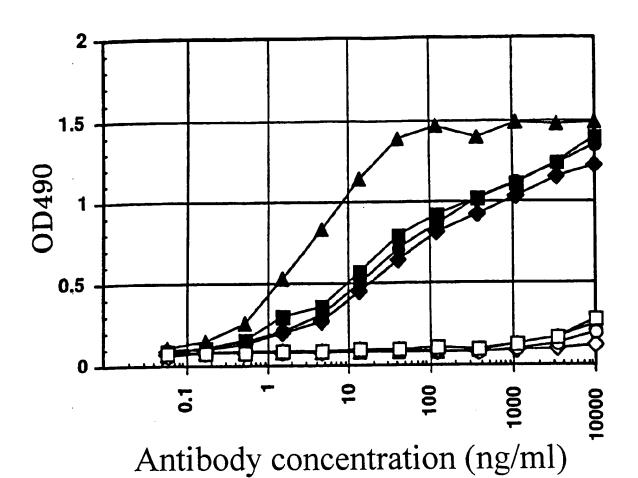


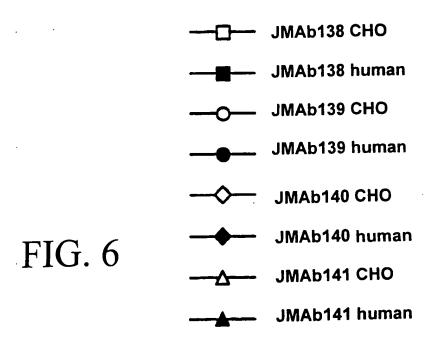


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HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

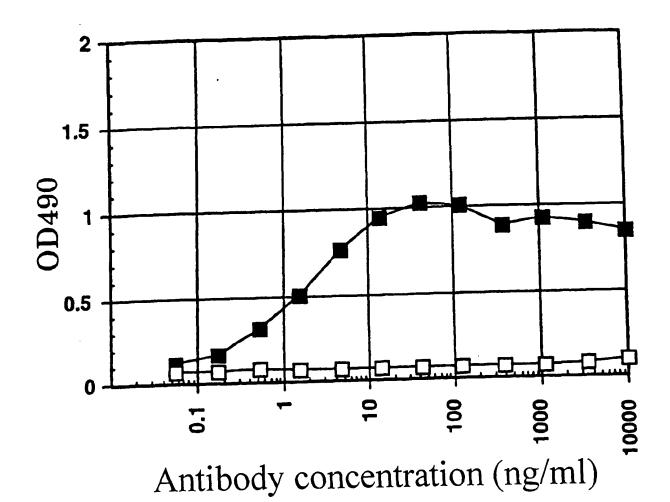




Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



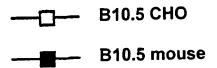
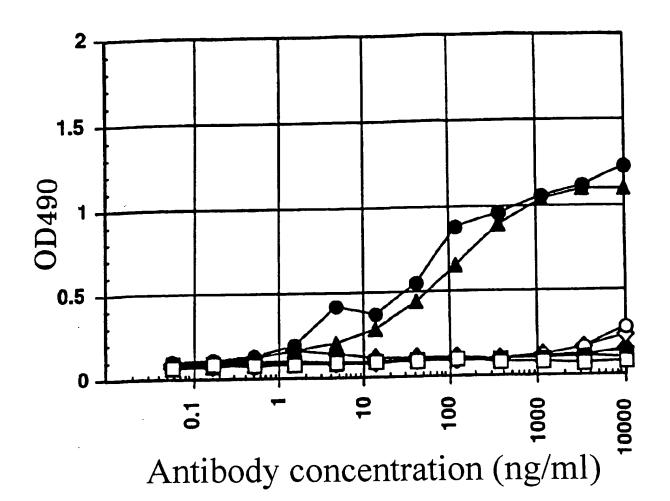


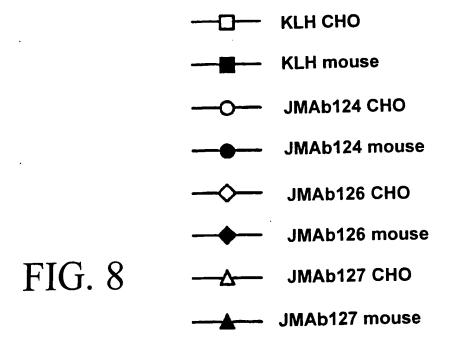
FIG. 7

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE





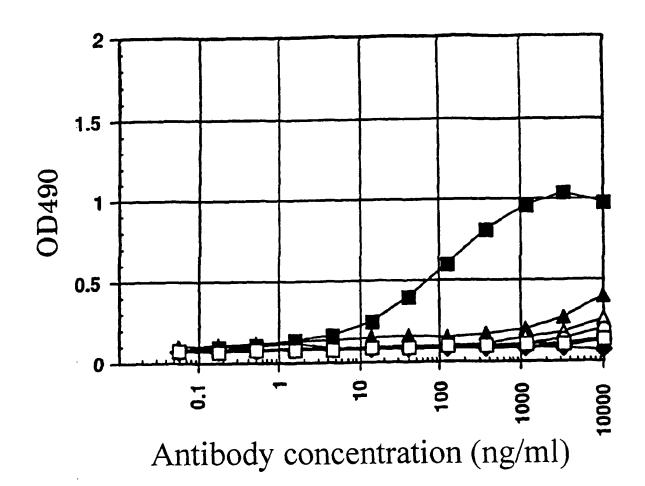


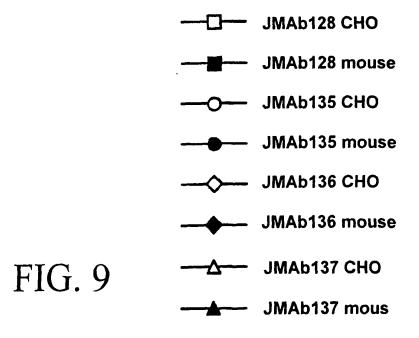
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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

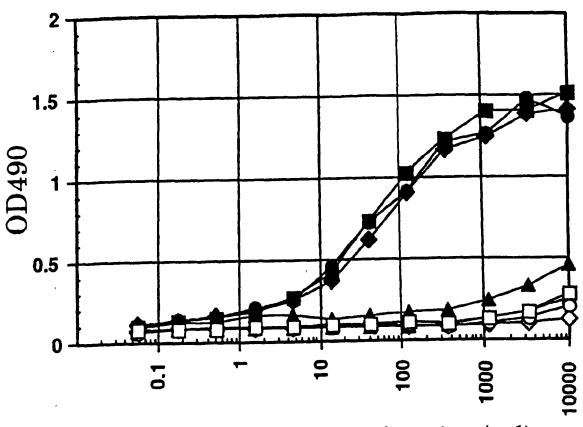




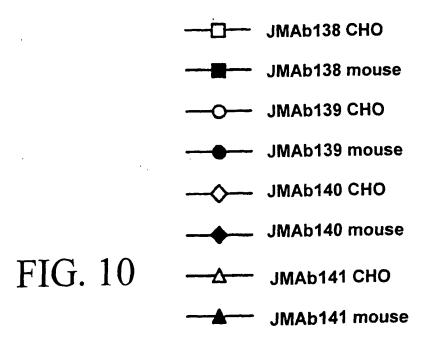
Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



Antibody concentration (ng/ml)



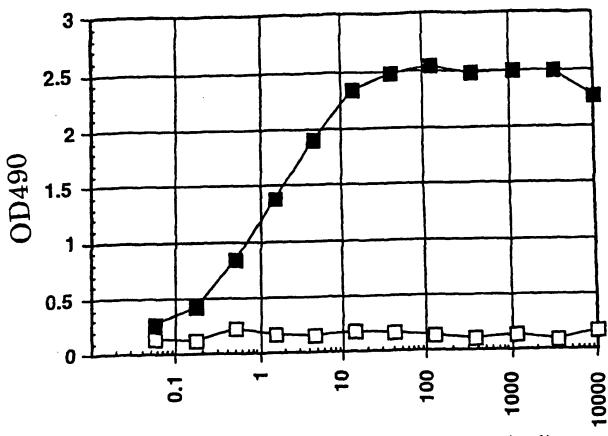
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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

AILIM



Antibody concentration (ng/ml)

\_\_\_\_\_ JTT2 CHO

\_\_\_\_\_\_ JTT2 rat

FIG. 11

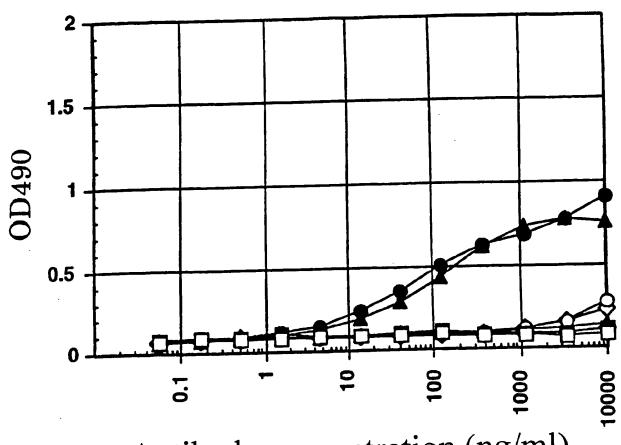
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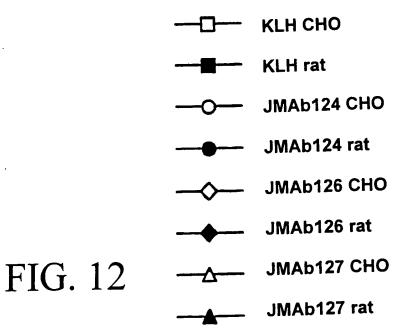
Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



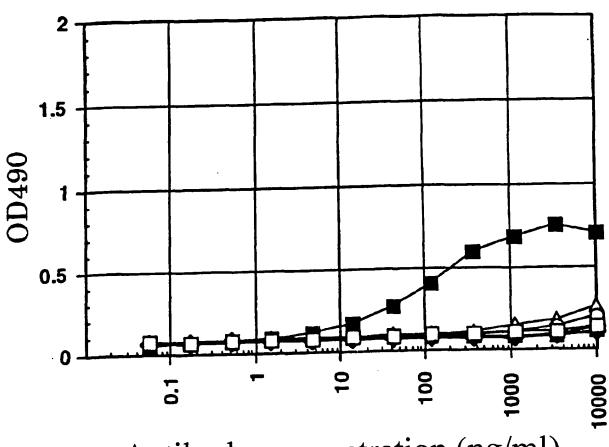
Antibody concentration (ng/ml)



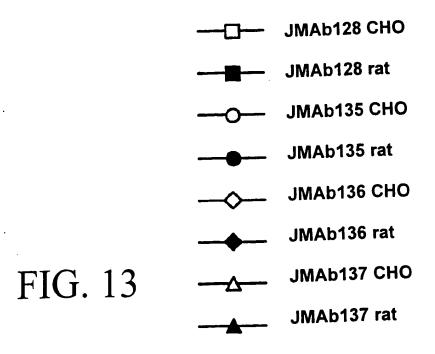
Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

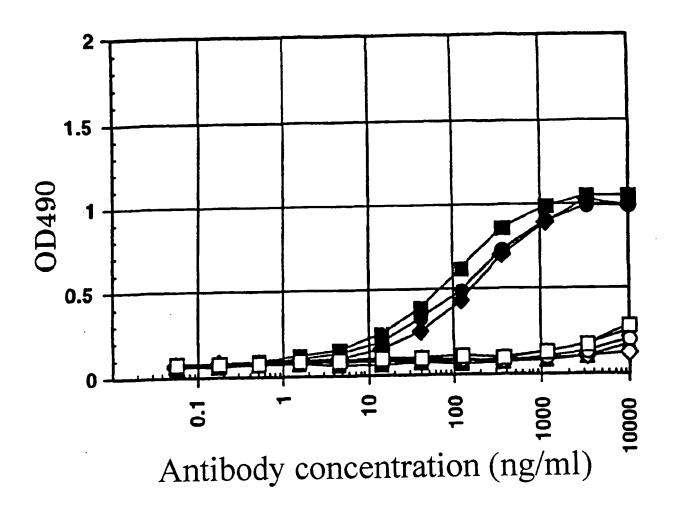


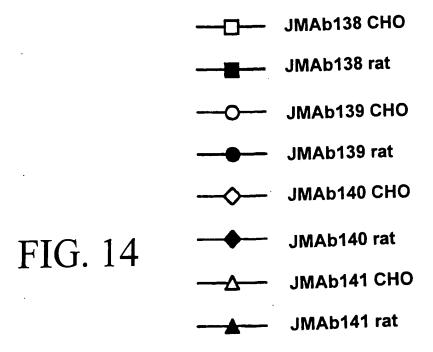
Antibody concentration (ng/ml)



Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE





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HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

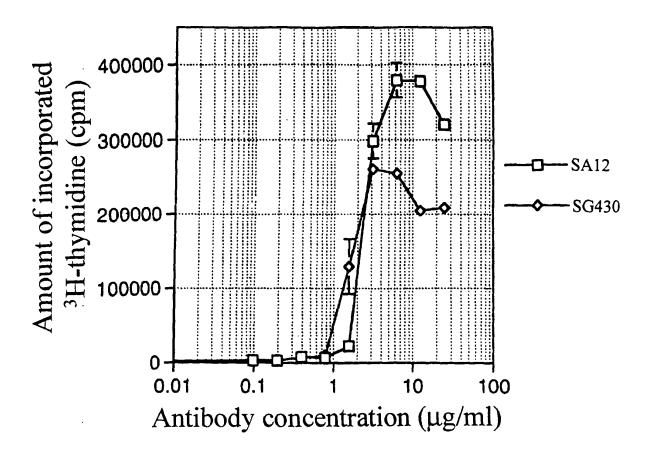


FIG. 15

Matter No.: 14539-006002 P Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

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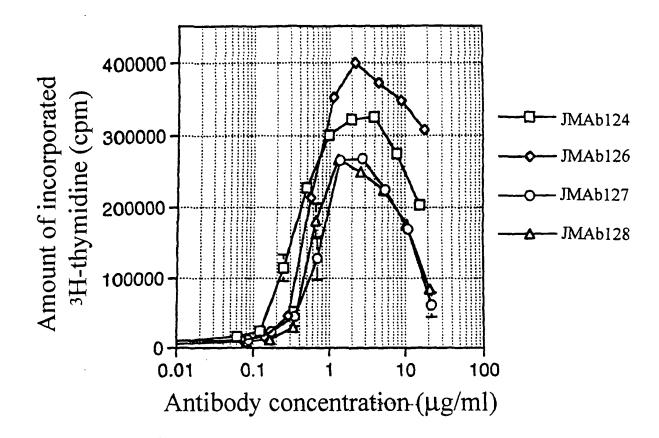


FIG. 16

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

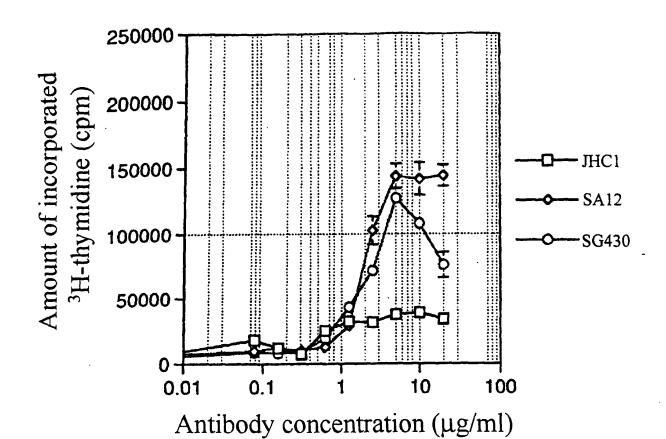


FIG. 17

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Applicant(s): Takashi Tsuji et al.
HUMAN MONOCLONAL ANTIBODY AGAINST A
COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

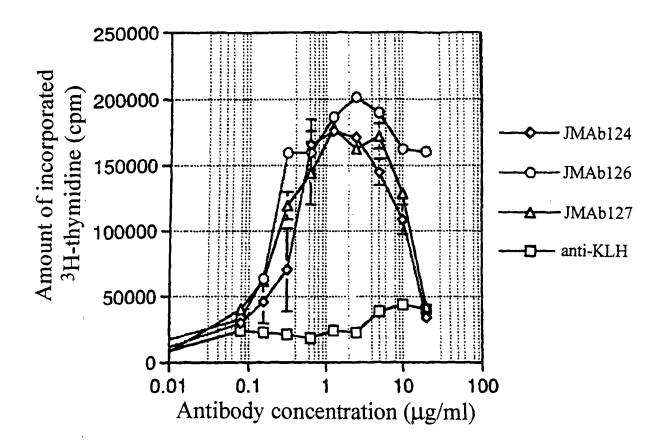


FIG. 18

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

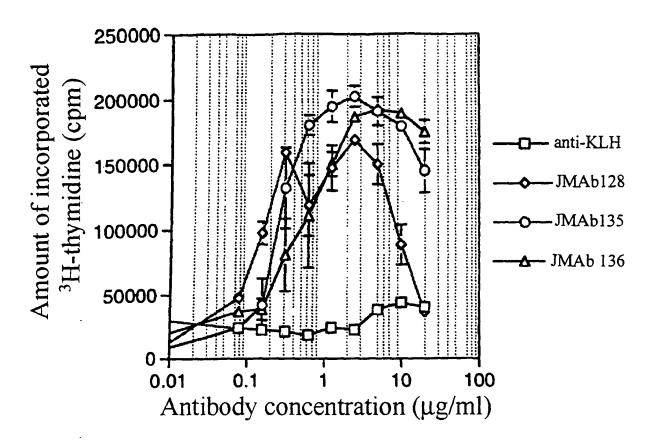


FIG. 19

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

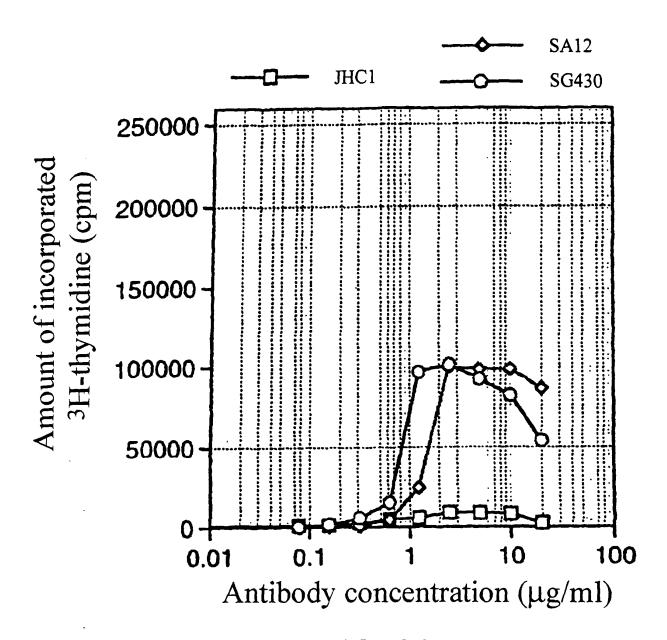


FIG. 20

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

MI IIA

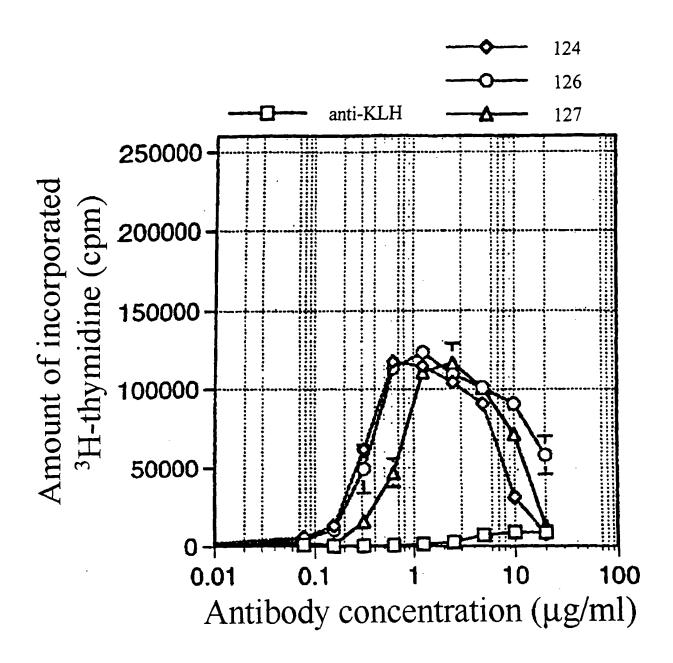


FIG. 21

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

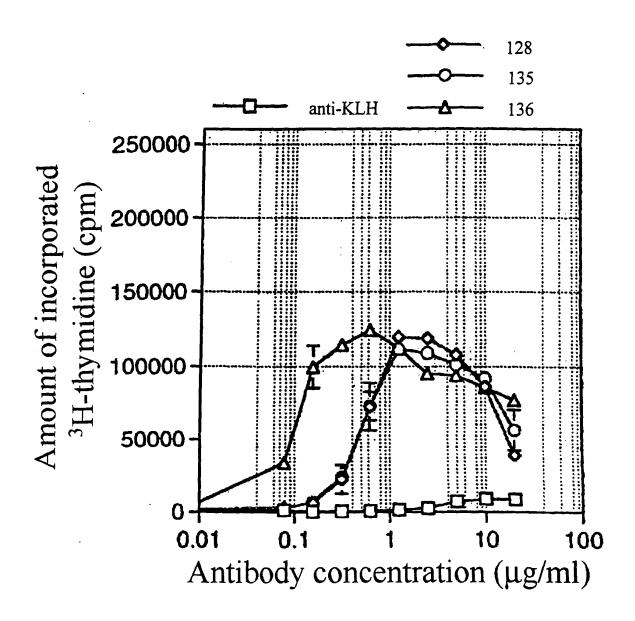


FIG. 22

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

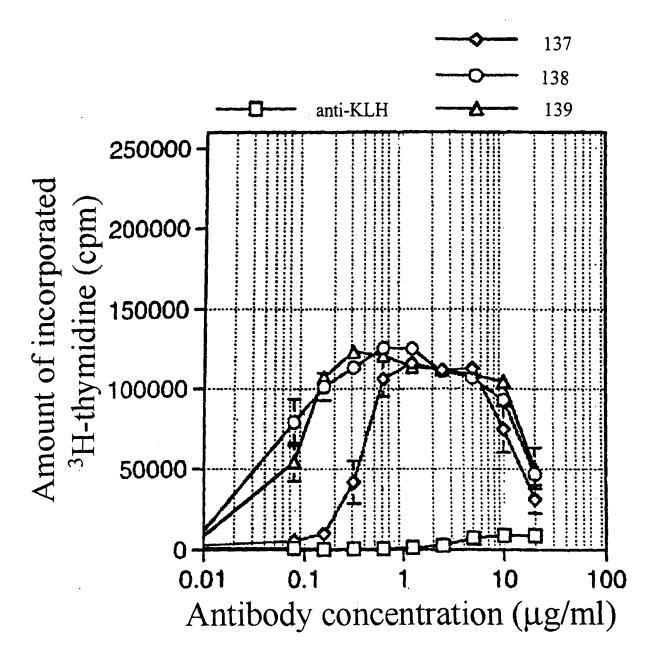


FIG. 23

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

All IM

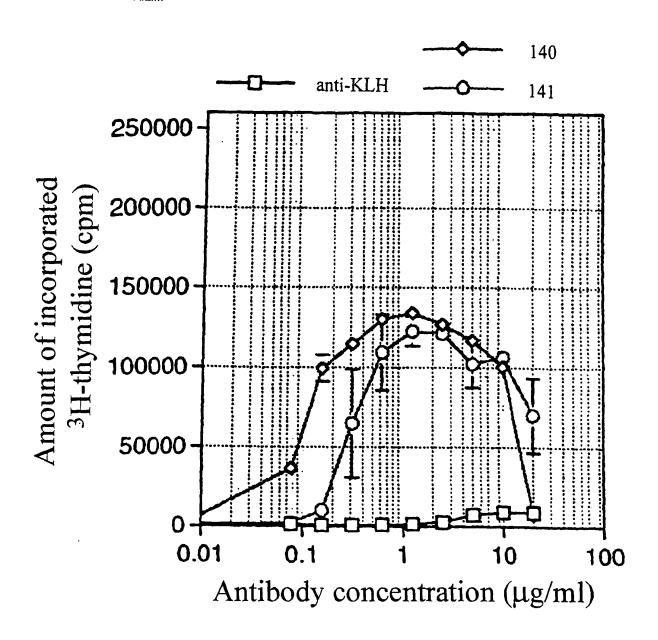


FIG. 24

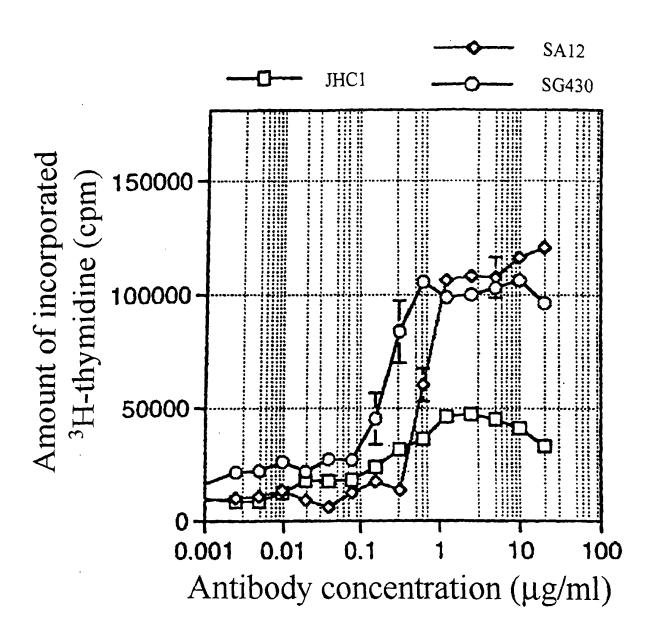


FIG. 25

HUMAN MONOCLONAL ANTIBODY AGAINST A
COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

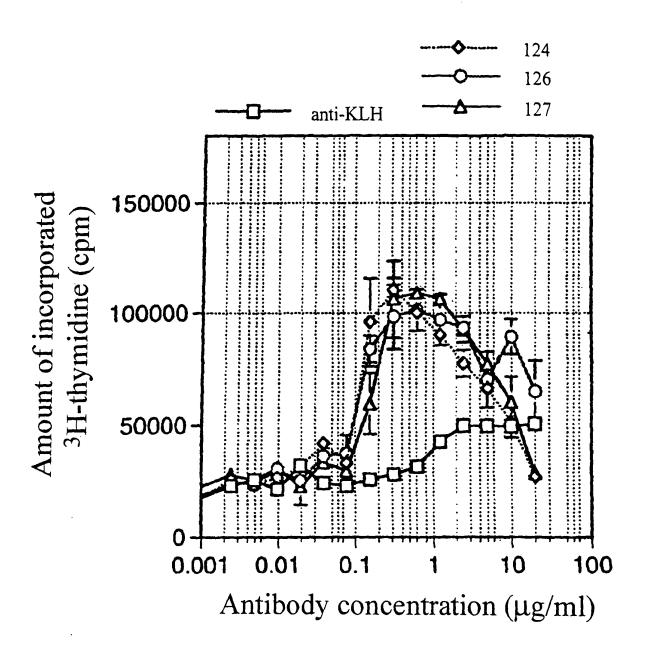


FIG. 26

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Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

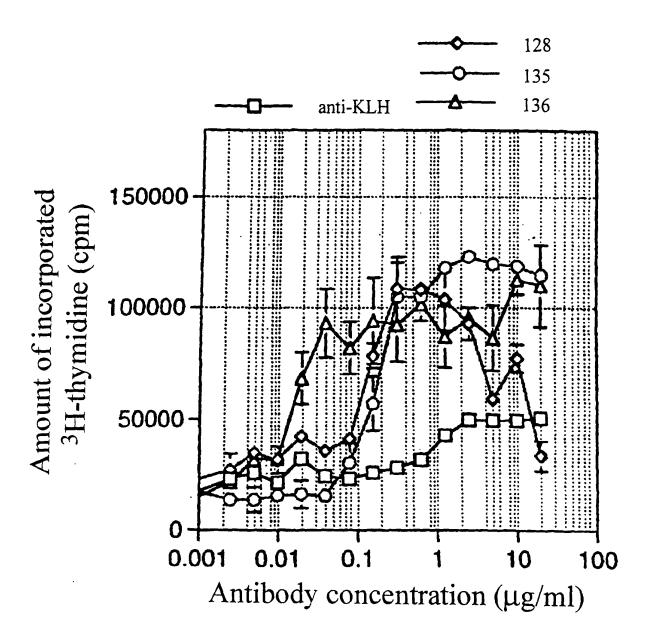


FIG. 27

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Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

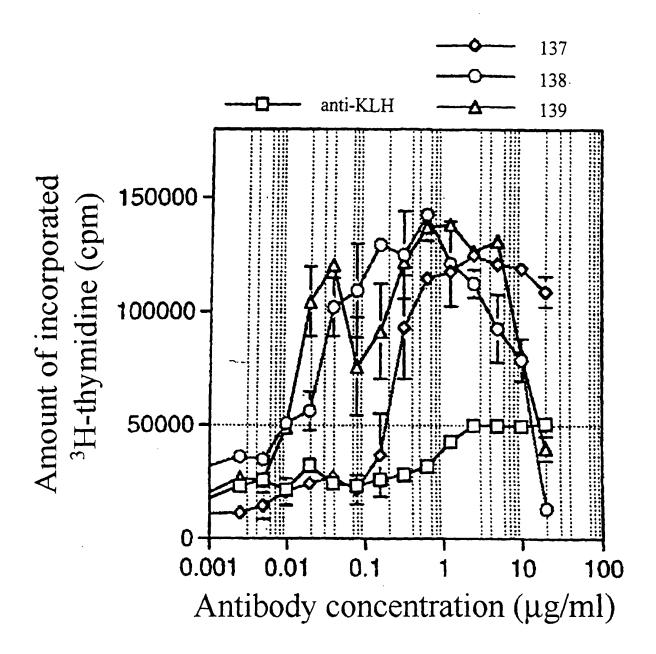


FIG. 28

Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

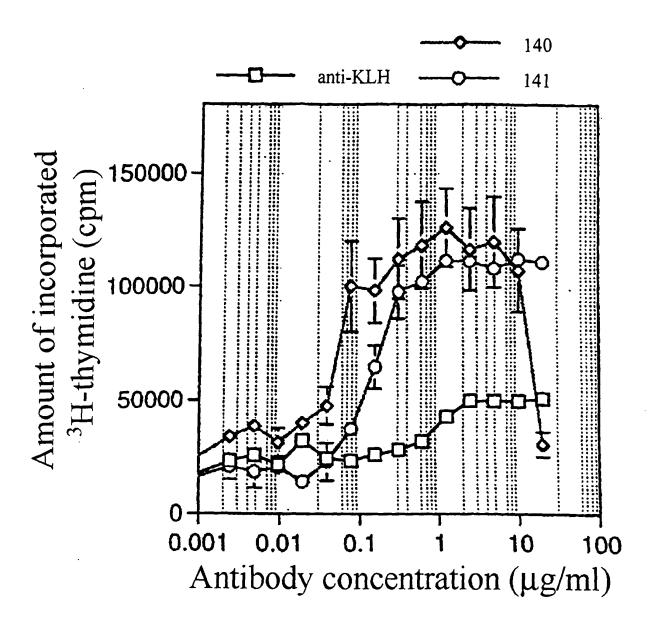


FIG. 29

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

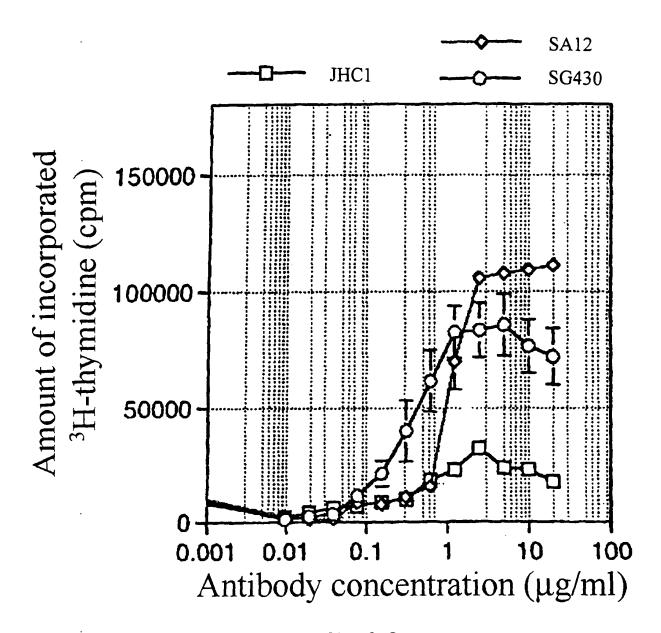


FIG. 30

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Applicant(s): Takashi Tsuji et al.
HUMAN MONOCLONAL ANTIBODY AGAINST A
COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

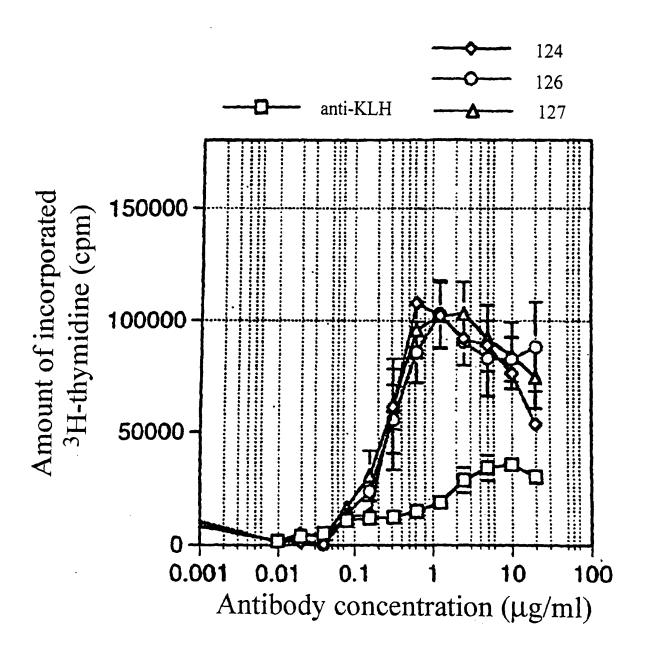


FIG. 31

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

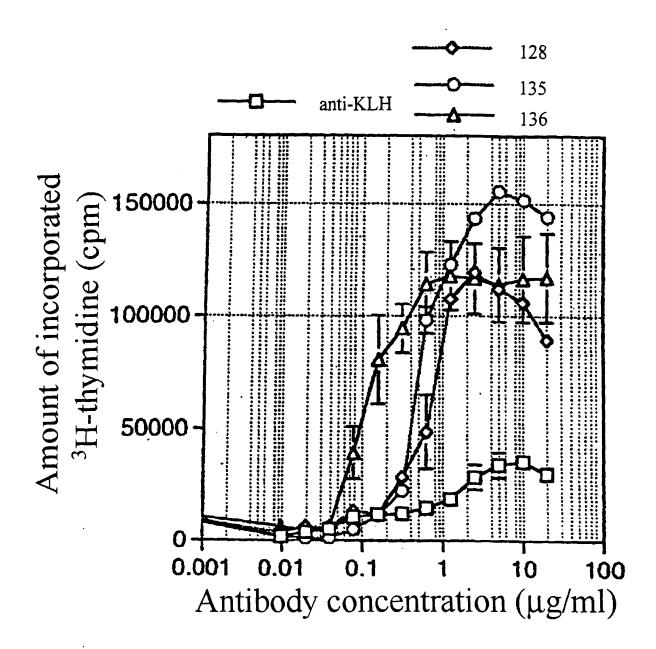


FIG. 32

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Applicant(s): Takashi Tsuji et al.
HUMAN MONOCLONAL ANTIBODY AGAINST A
COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

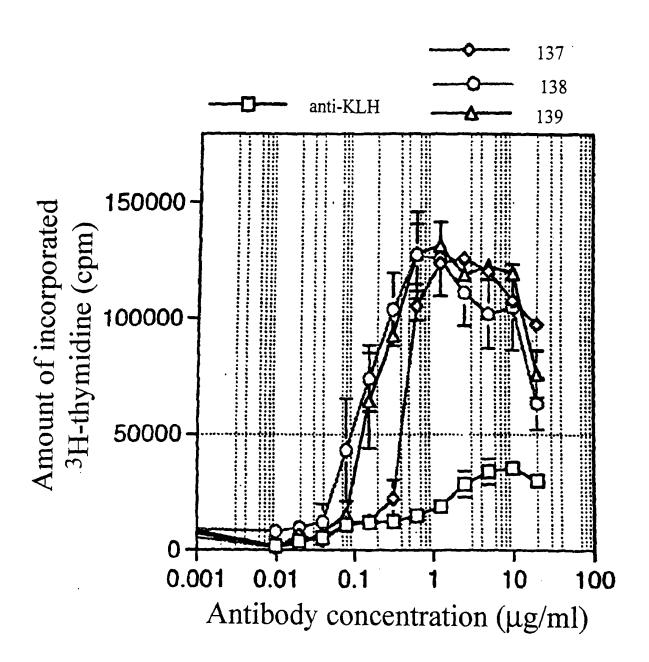


FIG. 33

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Applicant(s): Takashi Tsuji et al.
HUMAN MONOCLONAL ANTIBODY AGAINST A
COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

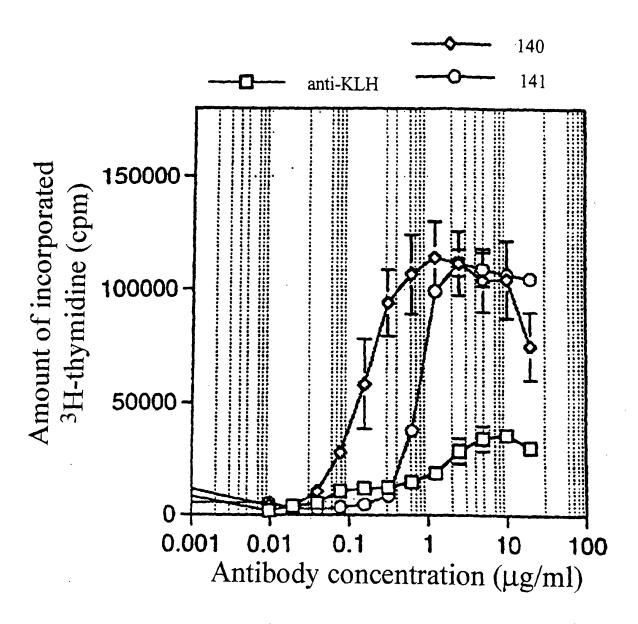


FIG. 34

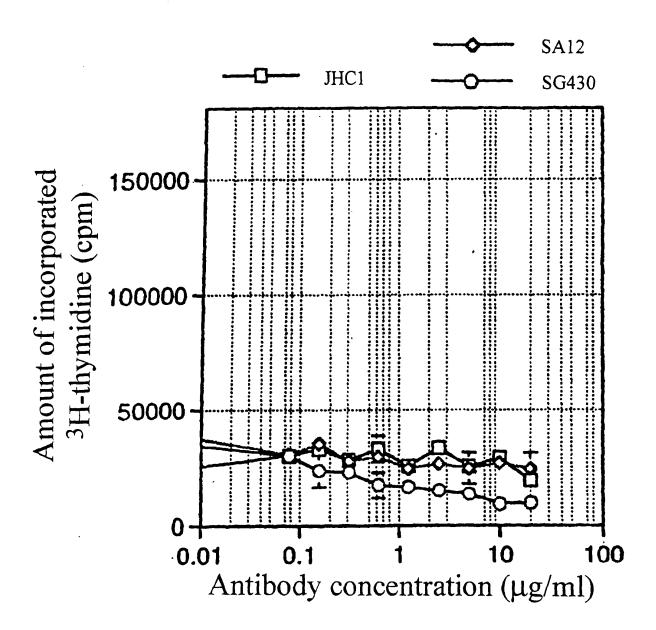


FIG. 35

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

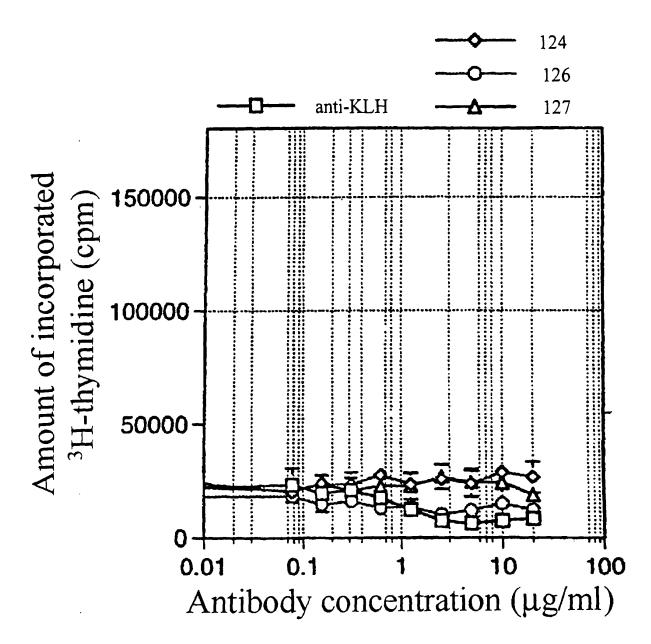


FIG. 36

Matter No.: 14539-006002 Page 37 of 78

Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

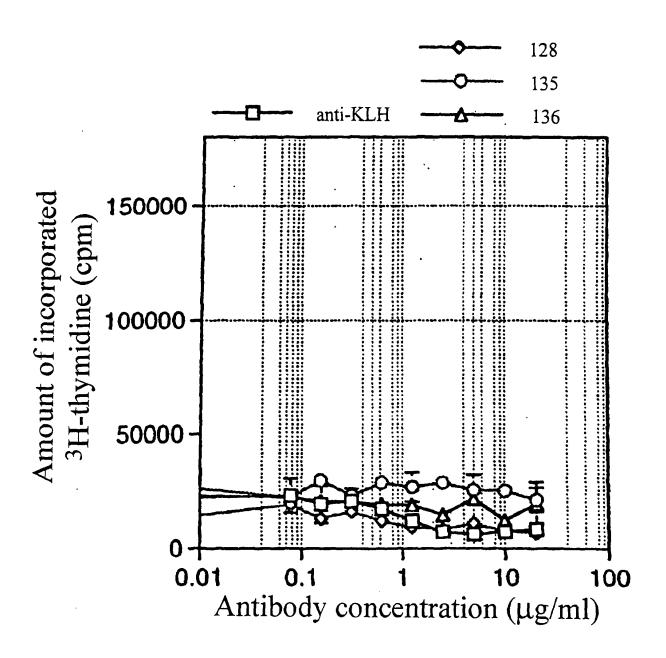


FIG. 37

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

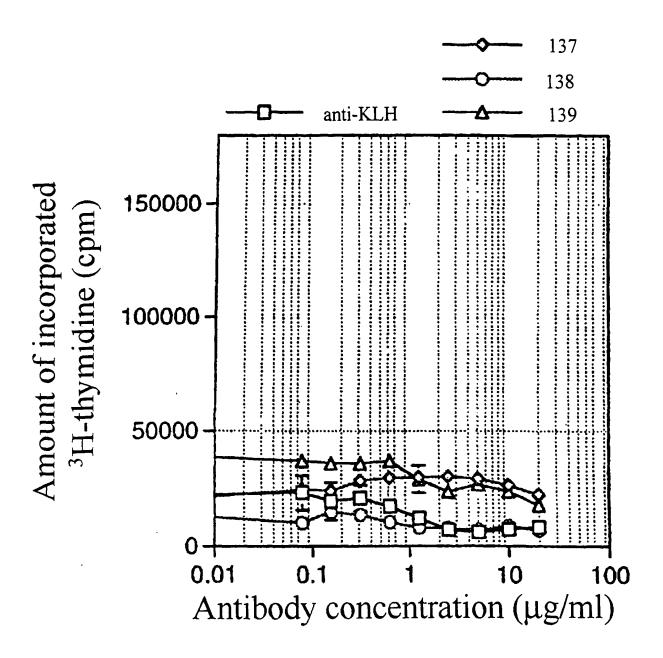


FIG. 38

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

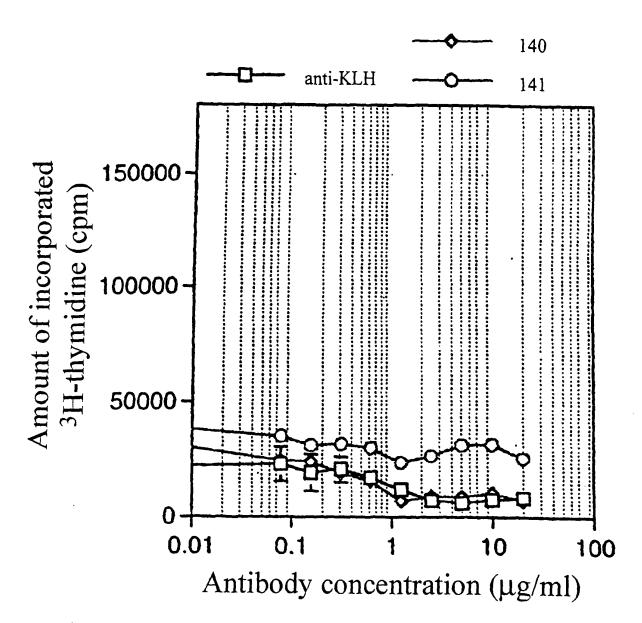


FIG. 39

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MÓNOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

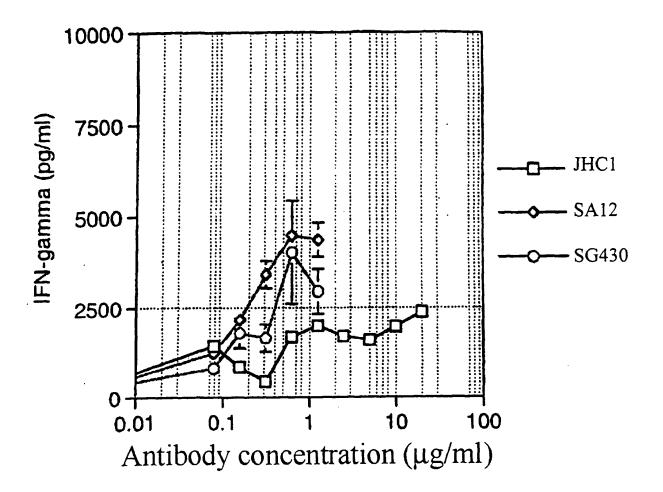


FIG. 40

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Applicant(s): Takashi Tsuji et al.
HUMAN MONOCLONAL ANTIBODY AGAINST A
COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

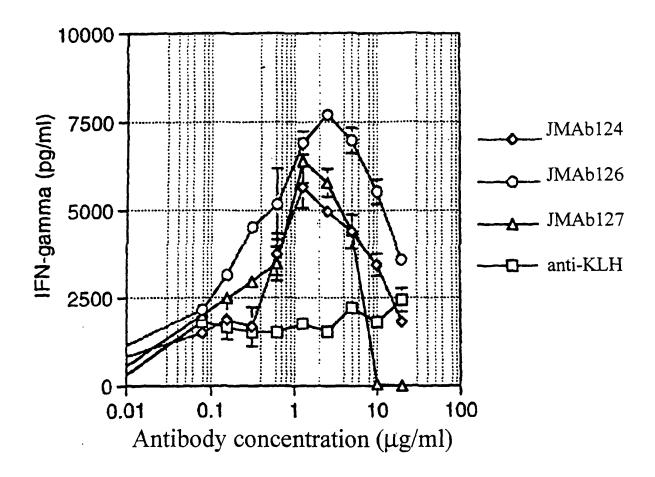


FIG. 41

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Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

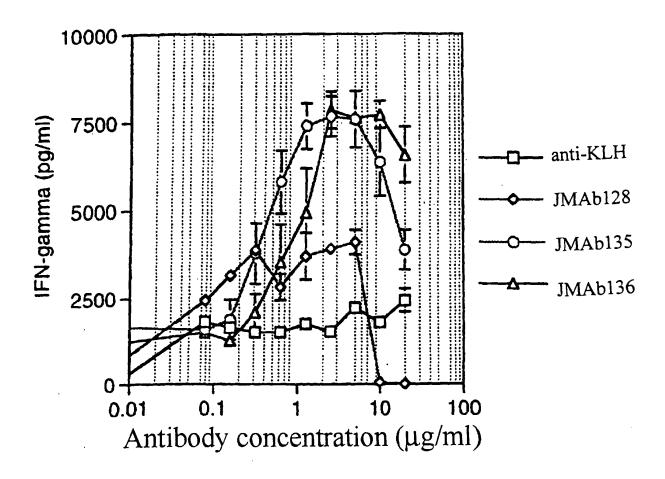


FIG. 42

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

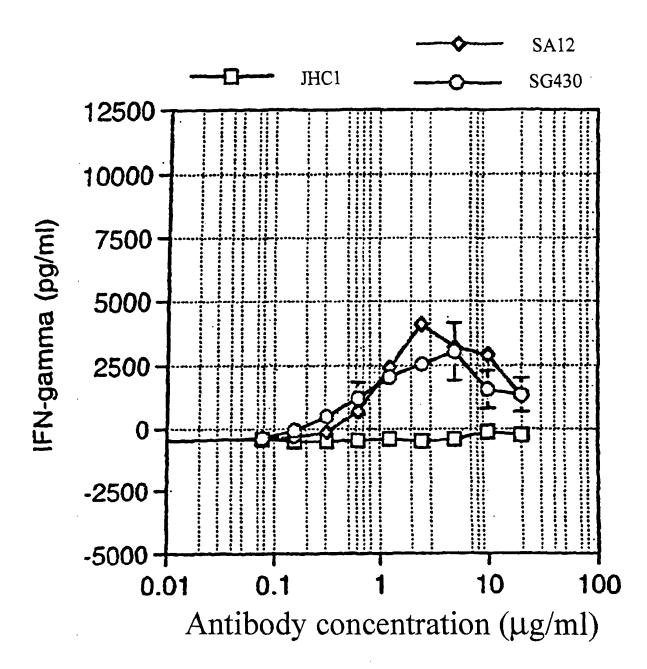


FIG. 43

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

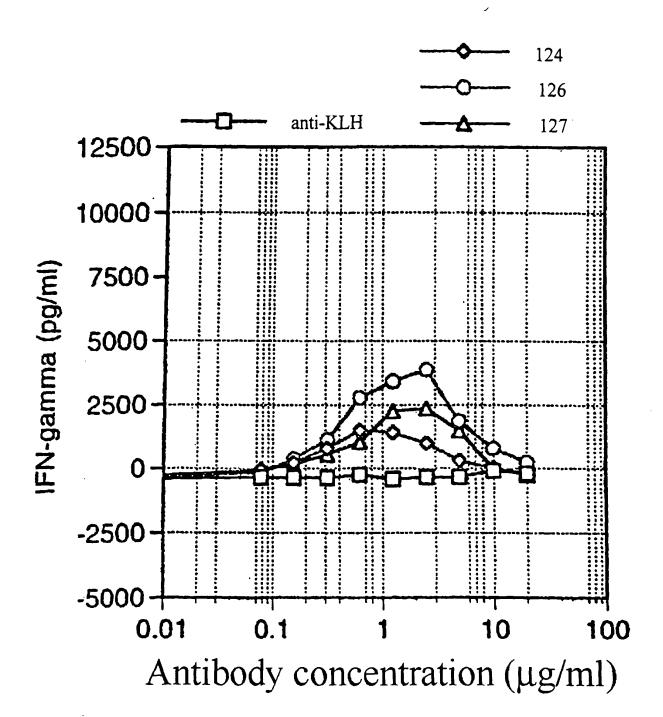


FIG. 44

Matter No.: 14539-006002 P Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

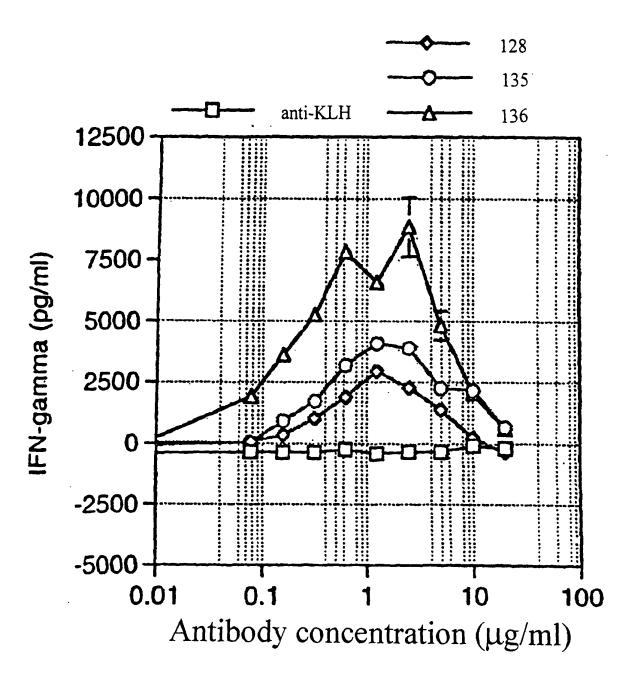


FIG. 45

Matter No.: 14539-006002 Page 46 of 78 Applicant(s): Takashi Tsuji et al. HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

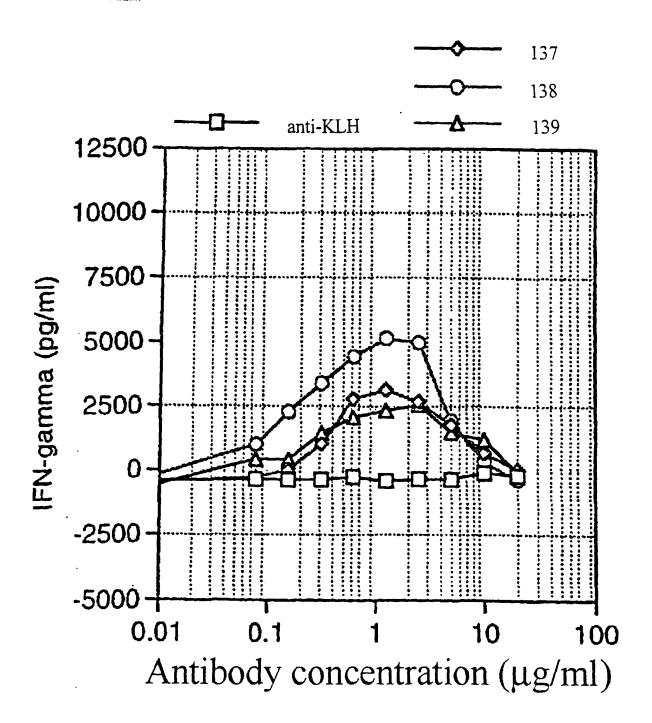


FIG. 46

Matter No.: 14539-006002

Applicant(s): Takashi Tsuji et al.

**HUMAN MONOCLONAL ANTIBODY AGAINST A** 

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

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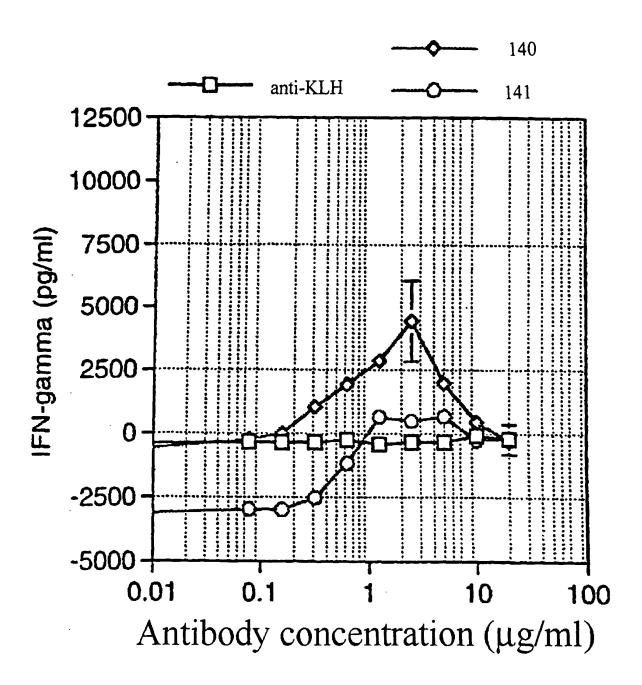


FIG. 47

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Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

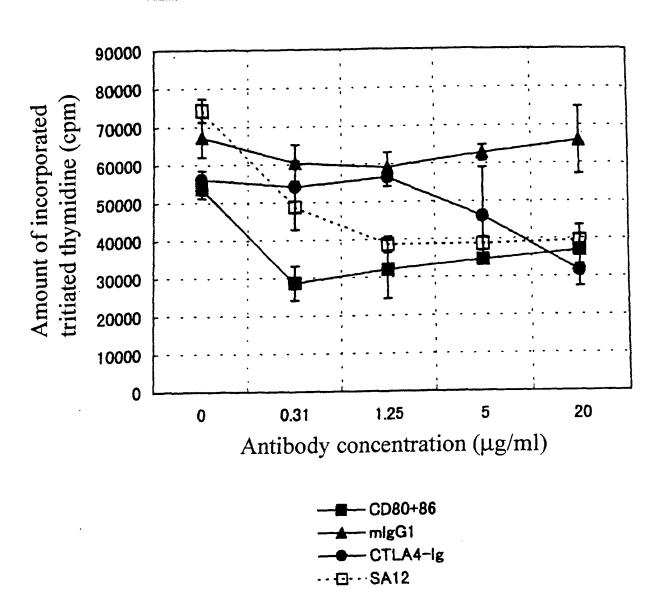


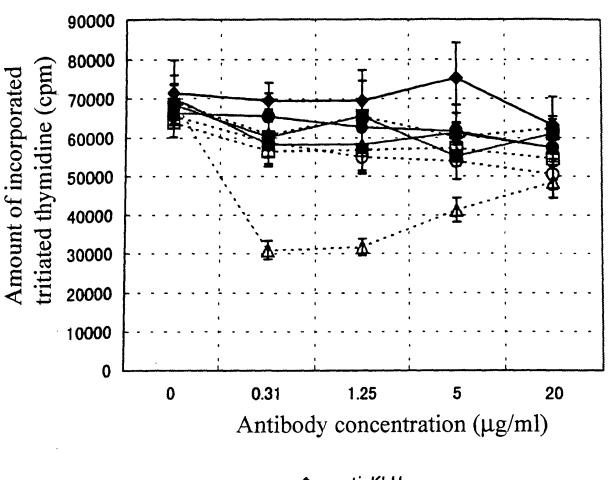
FIG. 48

Matter No.: 14539-006002 Page 49 of 78

Applicant(s): Takashi Tsuji et al.

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



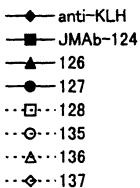


FIG. 49

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Matter No.: 14539-006002 Applicant(s): Takashi Tsuji et al.

**HUMAN MONOCLONAL ANTIBODY AGAINST A** 

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

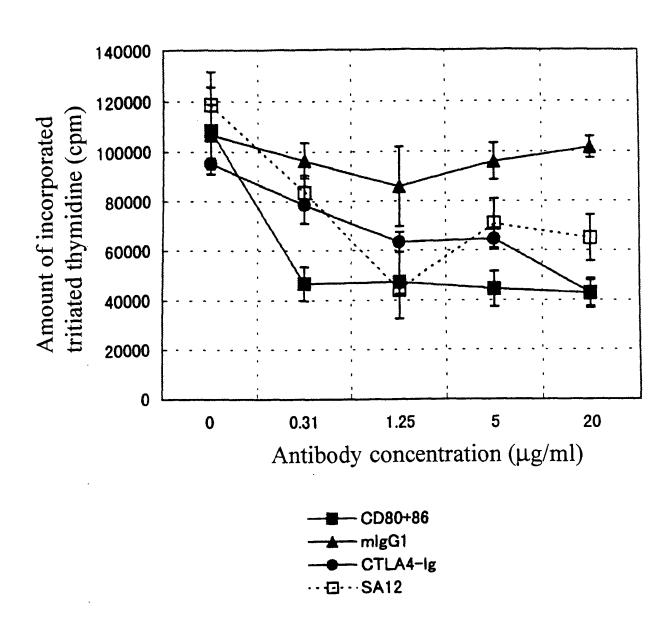


FIG. 50

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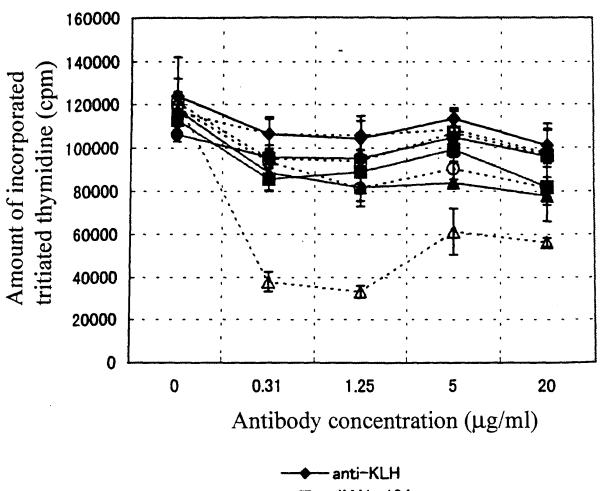


FIG. 51

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

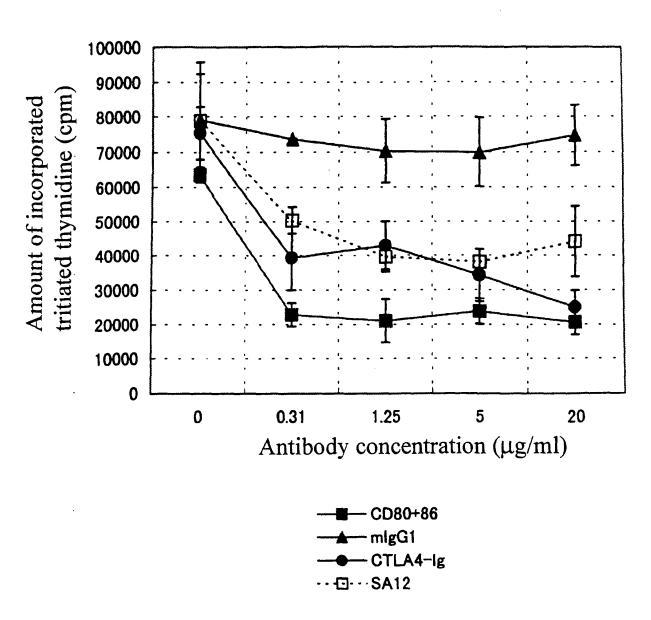


FIG. 52

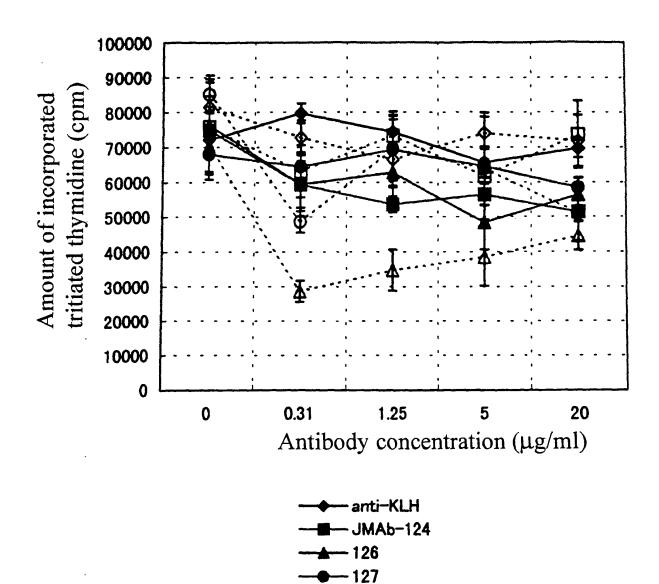


FIG. 53

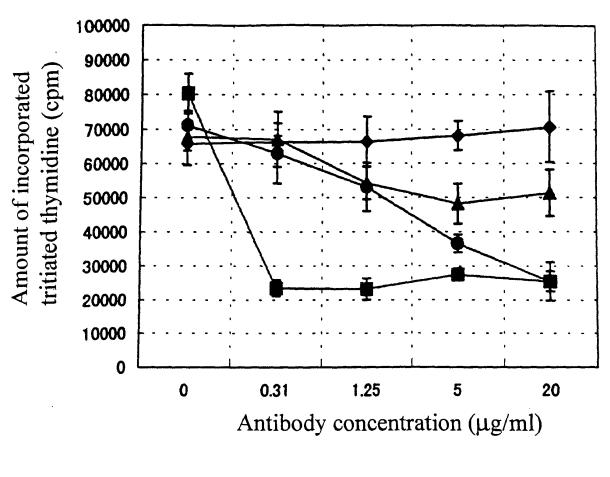
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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

**AILIM** 



→ control mlgG

-**▲**-SA12

-●- CTLA4-Ig

FIG. 54

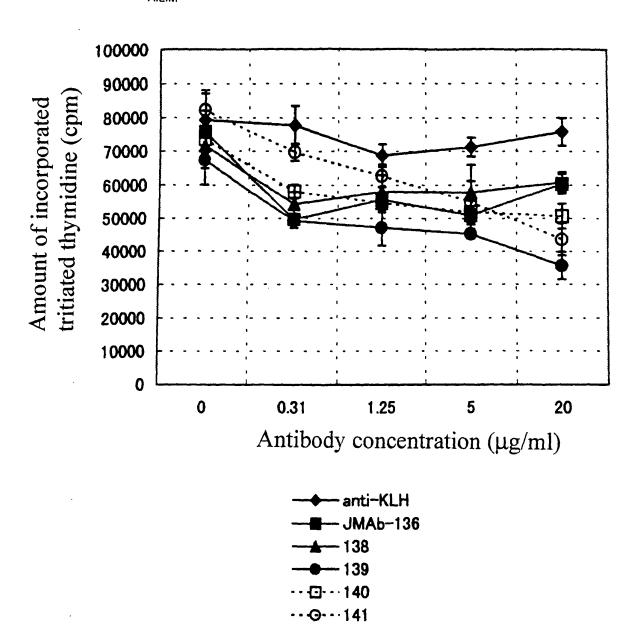


FIG. 55

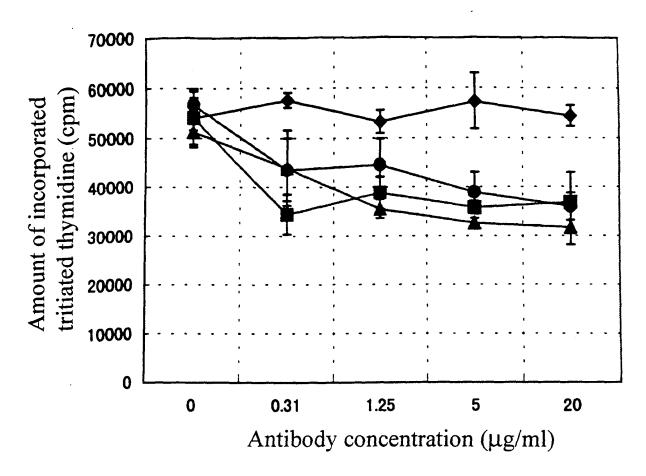
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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

**AILIM** 



→ control mlgG

-E-CD80+86 Ab

<u></u> SA12

--- CTLA4-ig

FIG. 56

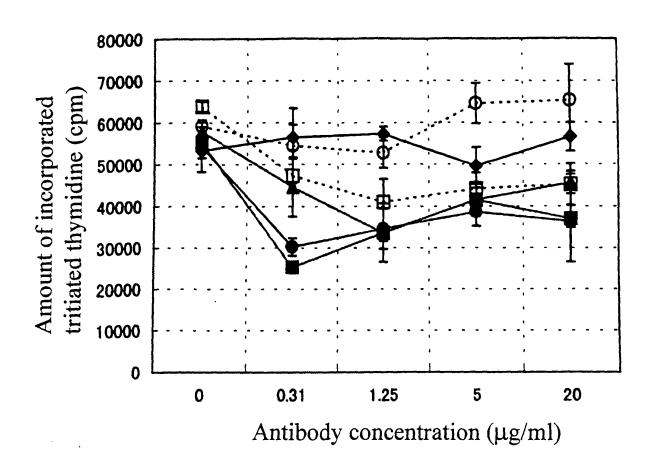


FIG. 57

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HUMAN MONOCLONAL ANTIBODY AGAINST A COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

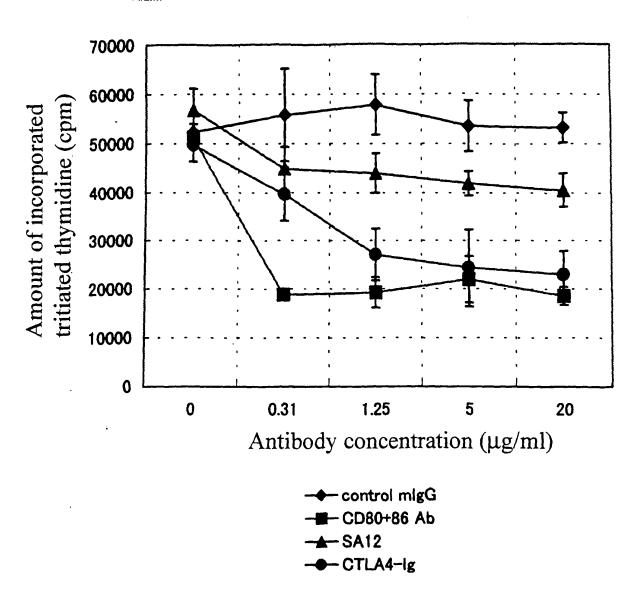
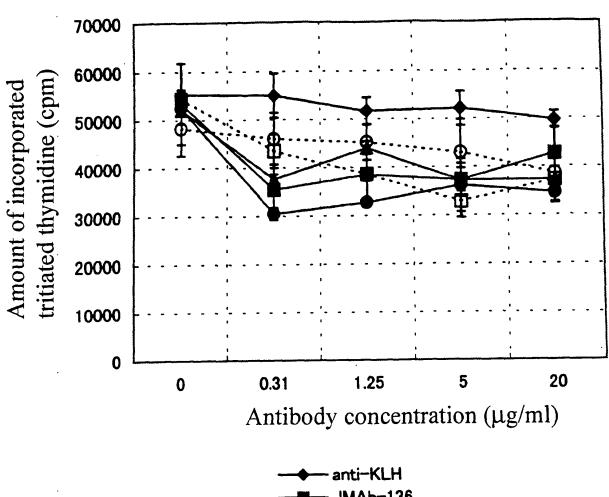


FIG. 58

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HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



— anti-KLH
— JMAb-136
— 138
— 139
- - □ - · · 140
- - ⊙ - · · 141

FIG. 59

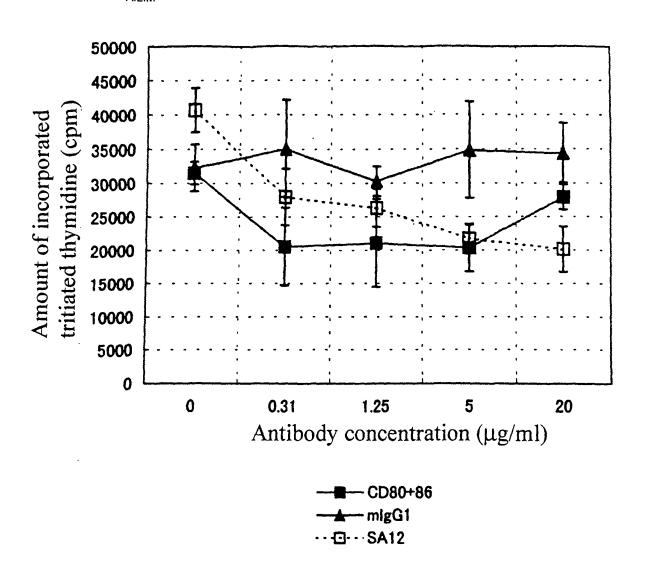
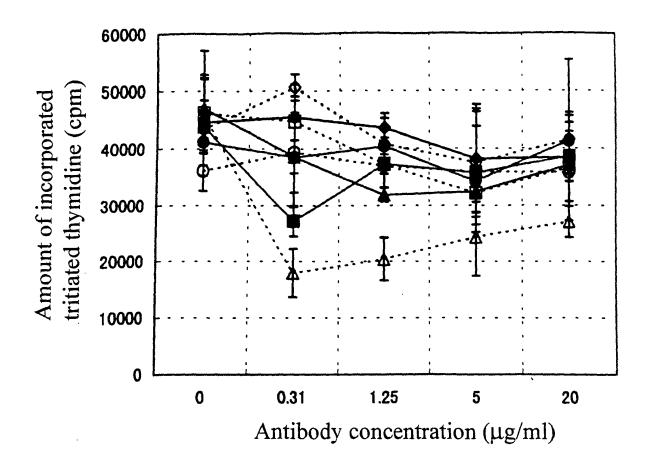


FIG. 60

HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



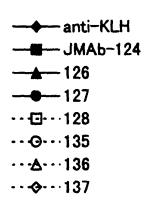
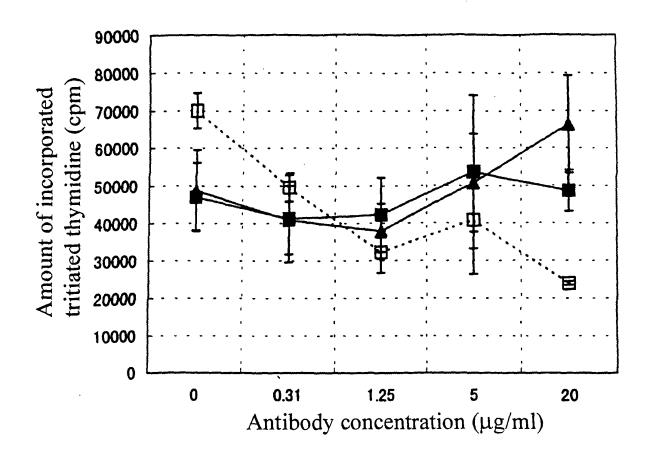


FIG. 61

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

AILIM



-- CD80+86 <del>▲</del> mlgG1 --- **⊡**--- SA12

FIG. 62

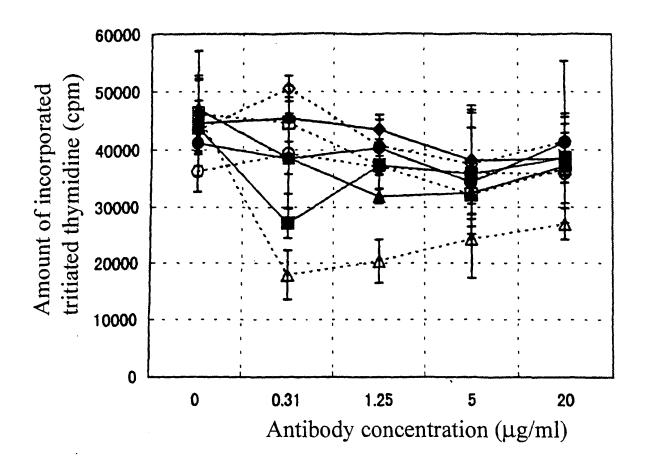
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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE



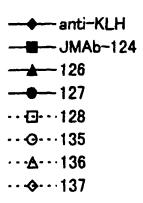


FIG. 63

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HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

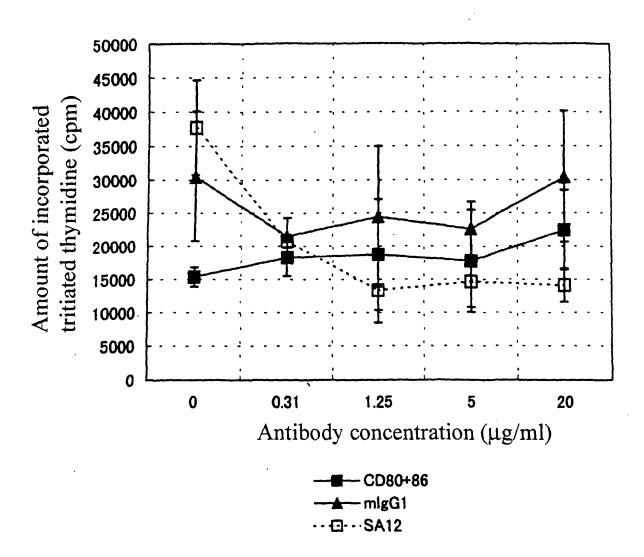


FIG. 64

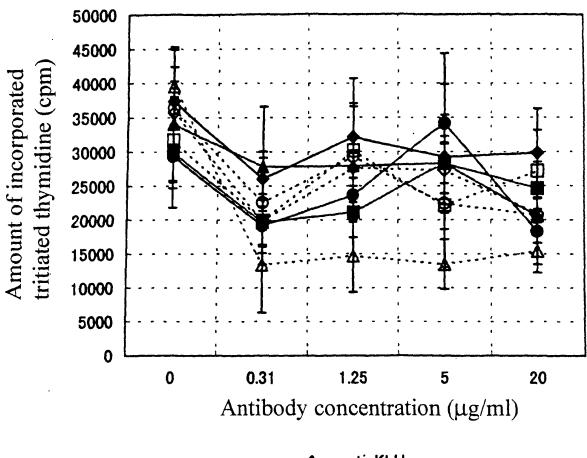


FIG. 65

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE AILIM

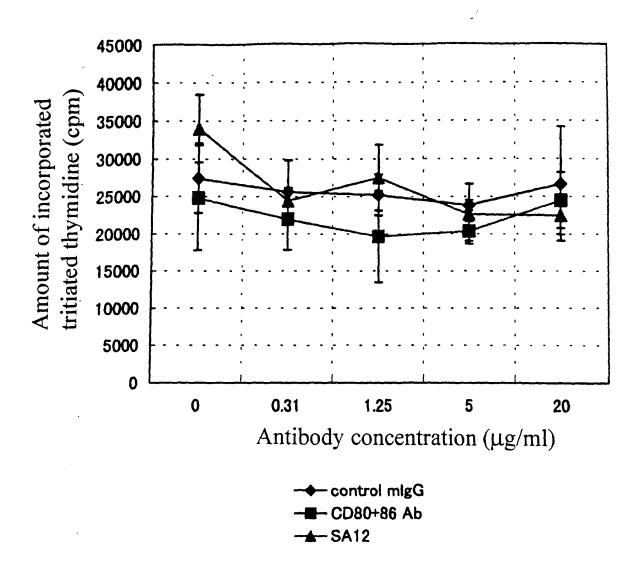


FIG. 66

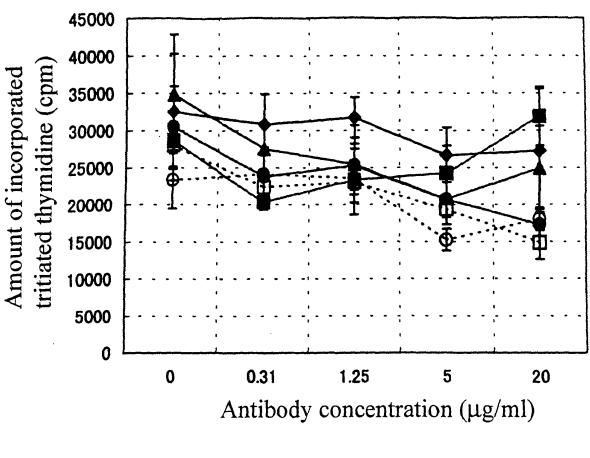


FIG. 67

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

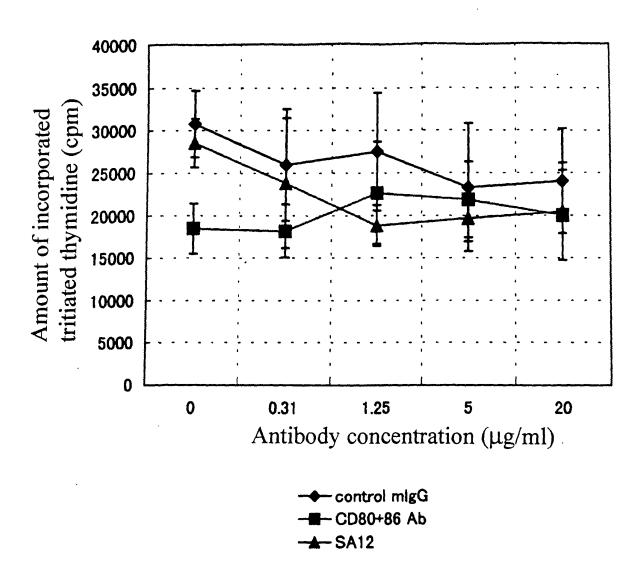


FIG. 68

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HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

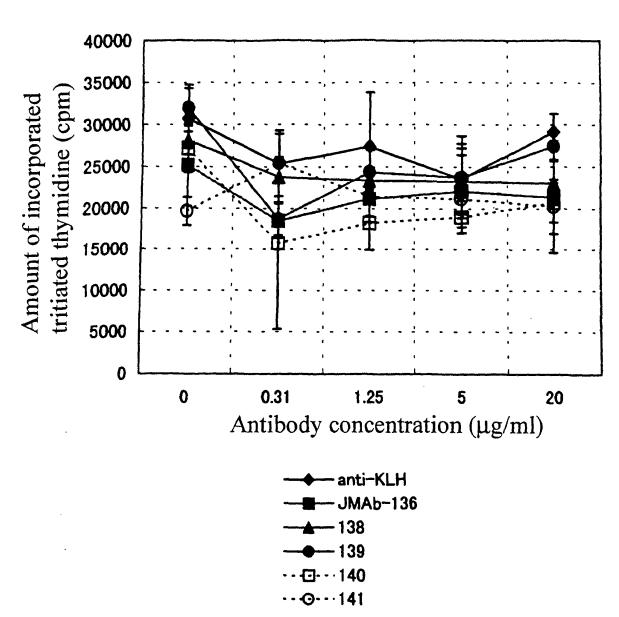


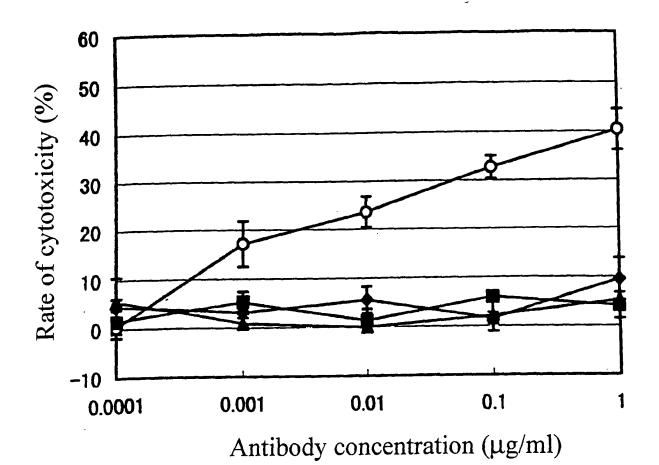
FIG. 69

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HUMAN MONOCLONAL ANTIBODY AGAINST A

COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

AILIM



-O- OKT-3

-**M**- JMab-136

<u>→</u> JMab-138

→ JMab-139

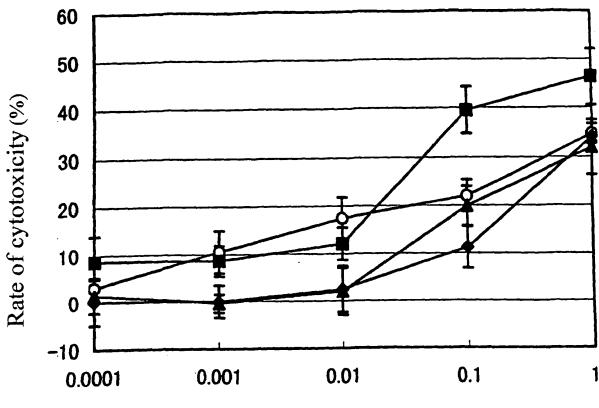
FIG. 70

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

AILIM



Antibody concentration (µg/ml)

-0- OKT-3

-**Ⅲ**-JMab-136

**▲** JMab-138

- JMab-139

FIG. 71

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

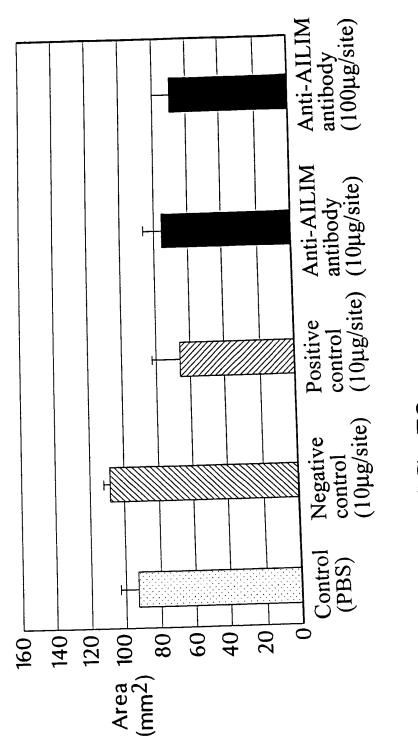


FIG. 72

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

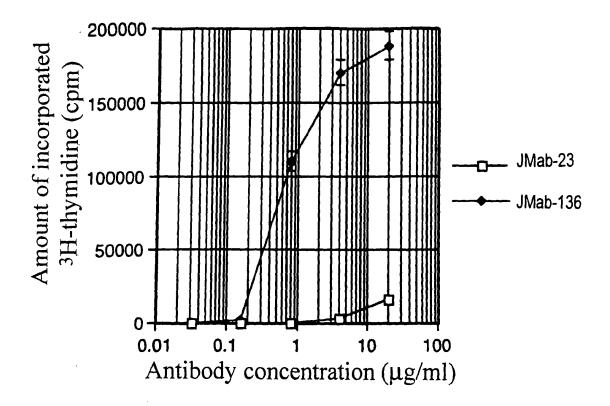


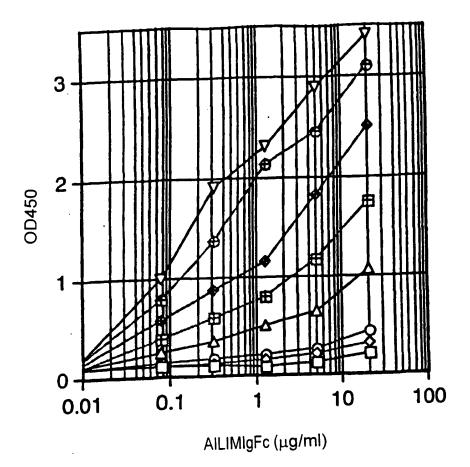
FIG. 73

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**AILIM** 



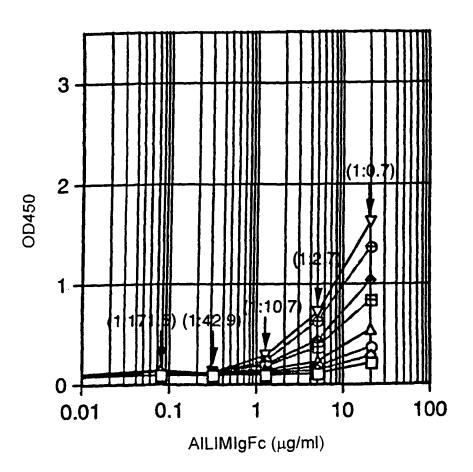
## Coated amount of B7hIgFc

	0 ng/well-B7hlgFc	
<del></del>	25 ng/well-B7hlgFc	
	50 ng/well-B7hlgFc	
	100 ng/well-B7hlgFc	
	200 ng/well-B7hlgFc	I
	400 ng/well-B7hlgFc	
-	800 ng/well-B7hlgFc	
	1600 ng/well-B7hlgFc	

FIG. 74

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE





## Coated amount of B7hIgFc

	0 ng/well-B7hlgFc	
<del></del>	25 ng/well-B7hlgFc	
	50 ng/well-B7hlgFc	
<u>Δ</u>	100 ng/well-B7hlgFc	FIG. 75
<del></del>	200 ng/well-B7hlgFc	
_	400 ng/well-B7hlgFc	
-	800 ng/well-B7hlgFc	•
<del></del>	1600 ng/well-B7hlgFc	

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

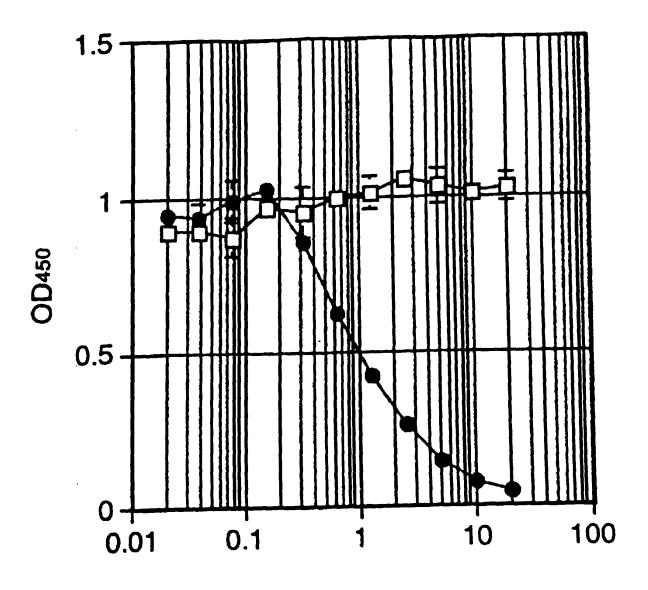


FIG. 76

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COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE

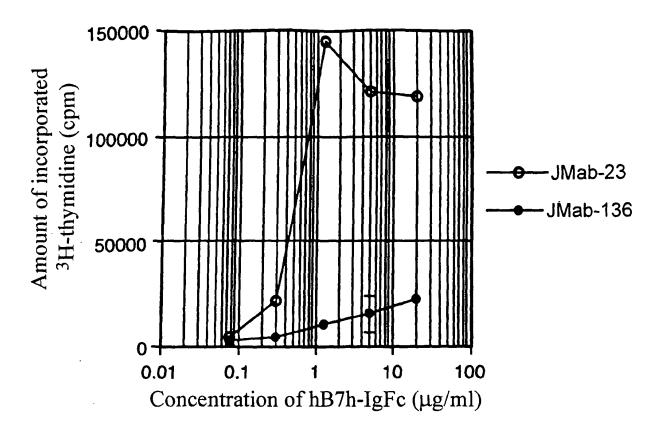


FIG. 77

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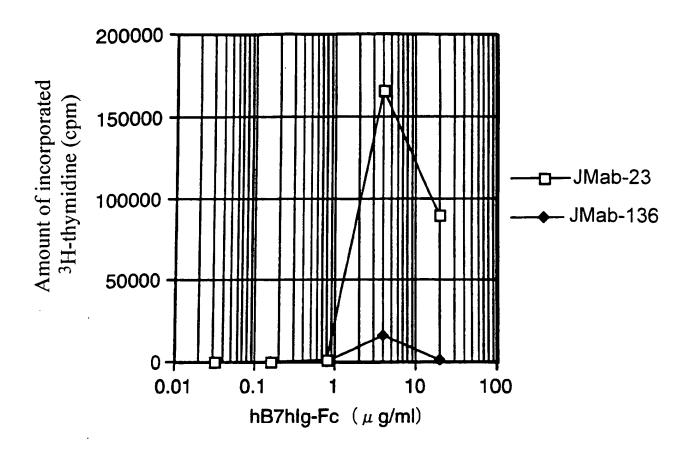


FIG. 78